BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Asphalting to Sainagara phase-II and Bestcounty - III and surrounding areas in ward no-03 Yelahanka Satellite Town sub Division

Estimation Cost.Rs 20000000.00

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1.00	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	New Drain								
	Bestcounty - III								
	3RD MAIN								
	LHS	Cum	1	139.05	1.10	0.90	137.66		
	RHS	Cum	1	62.37	1.10	0.90	61.75		
	1ST CROSS								
	LHS	Cum	1	24.10	1.10	0.90	23.86		
	RHS	Cum	1	24.80	1.10	0.90	24.55		
	1ST CROSS								
	RHS	Cum	1	25.30	1.10	0.90	25.05		
	1ST MAIN								
	LHS	Cum	1	90.00	1.10	0.90	89.10		
	RHS	Cum	1	53.40	1.10	0.90	52.87		
	2ND MAIN				1.10				
	RHS	Cum	1	170.40	1.10	0.90	168.70		
	Sai nagara Phase-II								
	C C Drain (Gate to Cross Road)								
	LHS	Cum	1	50.60	1.10	0.90	50.09		
	RHS	Cum	1	51.20	1.10	0.90	50.69		
	Cross Road to Aritha Project Consultancy								
	LHS	Cum	1	12.50	1.10	0.90	12.38		
	RHS	Cum	1	52.00	1.10	0.90	51.48		
	2nd Main (College to Akkara House)								
	R H S	Cum	1	28.40	1.10	0.90	28.12		
	Chakkalakala House to 2nd Cross	Cum	1	18.00	1.10	0.90	17.82		
	J.K Electic to Dead end	Cum	1	118.20	1.10	0.90	117.02		
	5th Cross Road								
	LHS	Cum	1	52.20	1.10	0.90	51.68		
	Rain Water Harvesting								
	For New Drain Portion	Cum	5		0.31	1.80	2.79		
				(3.142X0.63X0.63)/4=0.31					
	New Culvert								
		Cum	1	6.00	1.40	0.95	7.98		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	207.60							
	Total						973.56	207.60	202112.05

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
2.00	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Bestcounty - III								
	3RD MAIN								
	LHS								
	RHS	Cum	1	139.05	1.10	0.15	22.94		
	1ST CROSS	Cum	1	62.37	1.10	0.15	10.29		
	LHS								
	RHS	Cum	1	24.10	1.10	0.15	3.98		
	1ST CROSS	Cum	1	24.80	1.10	0.15	4.09		
	RHS								
	1ST MAIN	Cum	1	25.30	1.10	0.15	4.17		
	LHS								
	RHS	Cum	1	90.00	1.10	0.15	14.85		
	2ND MAIN	Cum	1	53.40	1.10	0.15	8.81		
	RHS								
	Sai nagara Phase-II	Cum	1	170.40	1.10	0.15	28.12		
	C C Drain (Gate to Cross Road)								
	LHS	Cum	1	50.60	1.10	0.15	8.35		
	RHS	Cum	1	51.20	1.10	0.15	8.45		
	Cross Road to Aritha Project Consultancy								
	LHS	Cum	1	12.50	1.10	0.15	2.06		
	RHS	Cum	1	52.00	1.10	0.15	8.58		
	2nd Main (College to Akkara House)								
	R H S	Cum	1	28.40	1.10	0.15	4.69		
	Chakkalakala House to 2nd Cross	Cum	1	18.00	1.10	0.15	2.97		
	J.K Electic to Dead end	Cum	1	118.20	1.10	0.15	19.50		
	5th Cross Road								
	LHS	Cum	1	52.20	1.10	0.15	8.61		
	New Culvert								
		Cum	1	6.00	1.40	0.15	1.26		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						**161.73**	**5421.90**	**876861.12**
3.00	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs. With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Bottom Raft								
	Bestcounty - III								
	3RD MAIN	Cum	1	139.05	1.00	0.15	20.86		
	LHS	Cum	1	62.37	1.00	0.15	9.36		
	RHS								
	1ST CROSS	Cum	1	24.10	1.00	0.15	3.62		
	LHS								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	RHS	Cum	1	24.80	1.00	0.15	3.72		
	1ST CROSS								
	RHS	Cum	1	25.30	1.00	0.15	3.80		
	1ST MAIN								
	LHS	Cum	1	90.00	1.00	0.15	13.50		
	RHS	Cum	1	53.40	1.00	0.15	8.01		
	2ND MAIN								
	RHS	Cum	1	170.40	1.00	0.15	25.56		
	Sai nagara Phase-II								
	C C Drain (Gate to Cross Road)								
	LHS	Cum	1	50.60	1.00	0.15	7.59		
	RHS	Cum	1	51.20	1.00	0.15	7.68		
	Cross Road to Aritha Project Consultancy								
	LHS	Cum	1	12.50	1.00	0.15	1.88		
	RHS	Cum	1	52.00	1.00	0.15	7.80		
	2nd Main (College to Akkara House)								
	R H S	Cum	1	28.40	1.00	0.15	4.26		
	Chakkalakala House to 2nd Cross	Cum	1	18.00	1.00	0.15	2.70		
	J.K Electic to Dead end	Cum	1	118.20	1.00	0.15	17.73		
	5th Cross Road								
	LHS	Cum	1	52.20	1.00	0.15	7.83		
	Side Wall								
	Bestcounty - III								
	3RD MAIN								
	LHS	Cum	2	139.05	0.15	0.60	25.03		
	RHS	Cum	2	62.37	0.15	0.60	11.23		
	1ST CROSS								
	LHS	Cum	2	24.10	0.15	0.60	4.34		
	RHS	Cum	2	24.80	0.15	0.60	4.46		
	1ST CROSS								
	RHS	Cum	2	25.30	0.15	0.60	4.55		
	1ST MAIN								
	LHS	Cum	2	90.00	0.15	0.60	16.20		
	RHS	Cum	2	53.40	0.15	0.60	9.61		
	2ND MAIN								
	RHS	Cum	2	170.40	0.15	0.60	30.67		
	Sai nagara Phase-II								
	C C Drain (Gate to Cross Road)								
	LHS	Cum	2	50.60	0.15	0.60	9.11		
	RHS	Cum	2	51.20	0.15	0.60	9.22		
	Cross Road to Aritha								
	LHS	Cum	2	12.50	0.15	0.60	2.25		
	RHS	Cum	2	52.00	0.15	0.60	9.36		
	2nd Main (College to								
	R H S	Cum	2	28.40	0.15	0.60	5.11		
	Chakkalakala House to	Cum	2	18.00	0.15	0.60	3.24		
	J.K Electic to Dead end	Cum	2	118.20	0.15	0.60	21.28		
	5th Cross Road								
	LHS	Cum	2	52.20	0.15	0.60	9.40		
					Sub Total		**320.93**		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	New Culvert								
	Bottom Raft								
		Cum	1	6.00	1.30	0.20	1.56		
	Side Wall								
		Cum	2	6.00	0.20	0.60	1.44		
					Sub Total		**3.00**		
	Basic rate	6670.00							
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						**323.93**	**7070.20**	**2290261.20**
4.00	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO 1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From Item num 3				320.93		
		kg	Steel assumed 65Kg/Cum of Concrete				20860.55		
		tonne					**20.74**		
	For Culvert	Cum	From Item num 3				3.00		
		kg	Steel assumed 90Kg/Cum of Concrete				270.00		
		tonne					**0.27**		
	Basic rate	68233.00							
	Area weightage 6%	4093.98							
	Sub Total	72326.98							
	Total						**21.01**	**72326.98**	**1519629.92**
5.00	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	For New Cover Slab								
	Bestcounty - III								
	3RD MAIN								
	LHS	Sqm	1	134.20	0.90		120.78		
	RHS	Sqm	1	73.87	0.90		66.48		
	1ST CROSS								
	LHS	Sqm	1	24.10	0.90		21.69		
	RHS	Sqm	1	24.80	0.90		22.82		
	1ST CROSS								
	LHS	Sqm	1	25.30	0.90		22.77		
	1ST MAIN								
	LHS	Sqm	1	39.40	0.90		35.46		
	RHS	Sqm	1	53.40	0.90		48.06		
	2ND MAIN								
	RHS	Sqm	1	135.10	0.90		121.59		
	Sai nagara Phase-II								
	C C Drain (Gate to Cross Road)								
	LHS	Sqm	1	50.60	0.90		45.54		
	RHS	Sqm	1	51.20	0.90		46.08		
	Cross Road to Aritha Project Consultancy								
	LHS	Sqm	1	12.50	0.90		11.25		
	RHS	Sqm	1	52.00	0.90		46.80		
	2nd Main (College to Akkara House)								
	R H S	Sqm	1	28.40	0.90		25.56		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Chakkalakala House to 2nd Cross	Sqm	1	18.00	0.90		16.20		
	J.K Electic to Dead end	Sqm	1	118.50	0.90		106.65		
	5th Cross Road LHS	Sqm	1	52.20	0.90		46.98		
	Missing Slabs								
		Sqm	60	0.90	0.60		32.40		
	Data rate	2337.00							
	Total						837.11	2337.00	1956333.08
6.00	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	New Culvert								
		Sqm	1	6.00	1.20		7.20		
	Data rate	5418.00							
	Total						7.20	5418.00	39009.60
7.00	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	New Kerb								
	Gate to Cross Road								
	RHS	Cum	1	51.20	0.20	0.05	0.51		
	LHS	Cum	1	50.60	0.20	0.05	0.51		
	Cross Road to Aritha Project Consultancy								
	LHS	Cum	1	12.50	0.20	0.05	0.13		
	RHS	cum	1	52.00	0.20	0.05	0.52		
	2nd Main (College to Akkara House)								
	RHS	cum	1	28.40	0.20	0.05	0.28		
	Chakkalakala House to 2nd Cross	cum	1	18.00	0.20	0.05	0.18		
	J.K Electic to Dead end	cum	1	118.20	0.20	0.05	1.18		
	Basic rate	5422.00							
	Area weightage 6%	325.32							
	Sub Total	5747.32							
	Total						3.31	5747.32	19017.88
8.00	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	New Kerb								
	Gate to Cross Road								
	RHS		1	51.20			51.20		
	LHS		1	50.60			50.60		
	Cross Road to Aritha Project Consultancy								
	LHS		1	12.50			12.50		
	RHS		1	52.00			52.00		
	2nd Main (College to Akkara House)								
	RHS		1	28.40			28.40		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Chakkalakala House to 2nd Cross		1	18.00			18.00		
	J.K Electic to Dead end		1	118.20			118.20		
	Total length						330.90		
	No of Kerb Stones	Nos	Total Length/0.45				735.33		
	Sub Total	Nos					**736.00**		
	Basic rate	408.00							
	Area weightage 6%	24.48							
	Sub Total	432.48							
	Total						**736.00**	**432.48**	**318305.28**
9.00	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	New Kerb								
	Gate to Cross Road								
	RHS	Sqm	1	51.20		0.40	20.48		
	LHS	Sqm	1	50.60		0.40	20.24		
	Cross Road to Aritha Project Consultancy								
	LHS	Sqm	1	12.50		0.40	5.00		
	RHS	Sqm	1	52.00		0.40	20.80		
	2nd Main (College to Akkara House)								
	RHS	Sqm	1	28.40		0.40	11.36		
	Chakkalakala House to 2nd Cross	Sqm	1	18.00		0.40	7.20		
	J.K Electic to Dead end	Sqm	1	118.20		0.40	47.28		
	Basic rate	80.00							
	Area weightage 6%	4.80							
	Sub Total	84.80							
	Total						132.36	84.80	11224.13
10.00	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Sainagar-II								
	Gates to Cross	Cum	1	56.10	9.70	0.38	206.78		
	Cross Road to Aritha	Cum	1	53.00	9.80	0.38	197.37		
	1st Main Road	Cum	1	285.00	9.40	0.38	1018.02		
	2nd Main Road	Cum	1	248.00	6.90	0.38	650.26		
	5th Cross Road	Cum	1	53.10	4.20	0.35	78.06		
	7th Cross Road	Cum	1	52.90	4.40	0.35	81.47		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	5Km lead= (2*1.28*5)	12.80							
	Sub Total	56.26							
	Total						2231.96	56.26	125569.82
11.00	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Sainagar-II								
	Gates to Cross	Sqm	1	56.10	9.70		544.17		

Sl No	Description of work		Mesurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
	Cross Road to Aritha	Sqm	1	53.00	9.80		519.40		
	1st Main Road	Sqm	1	285.00	9.40		2679.00		
	2nd Main Road	Sqm	1	248.00	6.90		1711.20		
	5th Cross Road	Sqm	1	53.10	4.20		223.02		
	7th Cross Road	Sqm	1	52.90	4.40		232.76		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	6.36							
	Total						5909.55	6.36	37584.74
12.00	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Sainagar-II								
	Gates to Cross	Cum	1	56.10	9.70	0.15	81.63		
	Cross Road to Aritha	Cum	1	53.00	9.80	0.15	77.91		
	1st Main Road	Cum	1	285.00	9.40	0.15	401.85		
	2nd Main Road	Cum	1	248.00	6.90	0.15	256.68		
	5th Cross Road	Cum	1	53.10	4.20	0.15	33.45		
	7th Cross Road	Cum	1	52.90	4.40	0.15	34.91		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	1994.92							
	Total						886.43	1994.92	1768361.92
13.00	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Sainagar-II								
	Gates to Cross	Cum	1	56.10	9.70	0.23	125.16		
	Cross Road to Aritha	Cum	1	53.00	9.80	0.23	119.46		
	1st Main Road	Cum	1	285.00	9.40	0.23	616.17		
	2nd Main Road	Cum	1	248.00	6.90	0.23	393.58		
	5th Cross Road	Cum	1	53.10	4.20	0.20	44.60		
	7th Cross Road	Cum	1	52.90	4.40	0.20	46.55		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	2001.28							
	Total						1345.52	2001.28	2692768.47
14.00	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)								
	Sainagar-II								
	Gates to Cross	Sqm	1	56.10	9.70		544.17		
	Cross Road to Aritha	Sqm	1	53.00	9.80		519.40		
	1st Main Road	Sqm	1	285.00	9.40		2679.00		
	2nd Main Road	Sqm	1	248.00	6.90		1711.20		
	5th Cross Road	Sqm	1	53.10	4.20		223.02		
	7th Cross Road	Sqm	1	52.90	4.40		232.76		
	Basic rate	21.00							

Sl No	Description of work		Mesurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
	Area weightage 6%	1.26							
	Sub Total	22.26							
	Total						5909.55	22.26	131546.58
15.00	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
		Sqm	From Item num 14				5909.55		
	Basic rate	32.00							
	Area weightage 6%	1.92							
	Sub Total	33.92							
	Total						5909.55	33.92	200451.94
16.00	KSRRB 500-2 Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
	Sainagar-II								
	Gates to Cross	Sqm	1	56.10	9.70		544.17		
	Cross Road to Aritha Project Consultancy	Sqm	1	53.00	9.80		519.40		
	1st Main Road	Sqm	1	285.00	9.40		2679.00		
	2nd Main Road	Sqm	1	248.00	6.90		1711.20		
	5th Cross Road	Sqm	1	53.10	4.20		223.02		
	7th Cross Road	Sqm	1	52.90	4.40		232.76		
	Basic rate	5.00							
	Area weightage 6%	0.30							
	Sub Total	5.30							
	Total						5909.55	5.30	31320.62
17.00	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
		Sqm	From Item num 16				5909.55		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	12.72							
	Total						5909.55	12.72	75169.48
18.00	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Sainagar-II								
	Gates to Cross	Cum	1	56.10	9.70	0.05	27.21		
	Cross Road to Aritha	Cum	1	53.00	9.80	0.05	25.97		
	1st Main Road	Cum	1	285.00	9.40	0.05	133.95		
	2nd Main Road	Cum	1	248.00	6.90	0.05	85.56		
	5th Cross Road	Cum	1	53.10	4.20	0.05	11.15		
	7th Cross Road	Cum	1	52.90	4.40	0.05	11.64		
	Basic rate	7008.00							
	Area weightage 6%	420.48							
	Sub Total	7428.48							
	Total						295.48	7428.48	2194948.70

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
19.00	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive).(P.No-171I No-21.78.12)								
	Sainagar-II								
	Gates to Cross	Cum	1	56.10	9.70	0.04	21.77		
	Cross Road to Aritha Project Consultancy	Cum	1	53.00	9.80	0.04	20.78		
	1st Main Road	Cum	1	285.00	9.40	0.04	107.16		
	2nd Main Road	Cum	1	248.00	6.90	0.04	68.45		
	5th Cross Road	Cum	1	53.10	4.20	0.03	6.69		
	7th Cross Road	Cum	1	52.90	4.40	0.03	6.98		
	Basic rate	8207.00							
	Area weightage 6%	492.42							
	Sub Total	8699.42							
	Total						231.82	8699.42	2016736.08
20.00	**KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Sainagar-II								
	Gates to Cross	Sqm	2.5	56.10	0.10		14.03		
	Cross Road to Aritha	Sqm	2.5	53.00	0.10		13.25		
	1st Main Road	Sqm	2.5	285.00	0.10		71.25		
	2nd Main Road	Sqm	2.5	248.00	0.10		62.00		
	5th Cross Road	Sqm	2.0	53.10	0.10		10.62		
	7th Cross Road	Sqm	2.0	52.90	0.10		10.58		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	454.74							
	Total						181.73	454.74	82637.63
21.00	KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin based adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)								
	Sainagar-II								
	Gates to Cross		3	56.10			168.30		
	Cross Road to Aritha		3	53.00			159.00		
	1st Main Road		3	285.00			855.00		
	2nd Main Road		2	248.00			496.00		
					Sub Total		1678.30		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Provide Studs for every 3m along Road length								
	Number of Studs along Road Length	Nos		Total length/3			559.43		
	Basic rate	337.00							
	Area weightage 6%	20.22							
	Sub Total	357.22							
	Total						559.43	357.22	199840.78
22.00	Filling in foundation with granite/trap broken metal 100mm and down size ,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	a) 40mm Jelly	Cum	5	0.31		0.40	0.62		
				(3.142*0.63*0.63)/4=0.31					
	Total						0.62	1901.00	1,178.62
	b) 20mm Jelly	Cum	5	0.31		0.40	0.62		
				(3.142*0.63*0.63)/4=0.31					
	Total						0.62	1901.00	1,178.62
	c) Coarse sand	Cum	5	0.31		0.30	0.47		
				(3.142*0.63*0.63)/4=0.31					
	Total						0.47	2651.00	1,232.72
	d) Fine sand	Cum	5	0.31		0.20	0.31		
				(3.142*0.63*0.63)/4=0.31					
	Total						0.31	2651.00	821.81
	e) 12.5mm chips	Cum	5	0.31		0.30	0.47		
				(3.142*0.63*0.63)/4=0.31					
	Total						0.47	1901.00	883.97
23.00	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-995 with latest amendments and conveying to work site including loading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle tee, stud ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for: HDPE Grade PE80-PN6.0, 630mm dia .(Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 code No K010Q)								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth	Rmt	9				9.00		
			1.8X5=9						
	Sub Total	10822.32							
	Total						9.00	10822.32	97,400.88

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
24.00	Providing of Geonets for Rain Water Harvesting pit on the filter media as specified in drawings or as approved by Engineer Incharge								
		Sqm	5.00	0.31			1.55		
				(3.142*0.63*0.63)/4=0.31					
	Sub Total	71.03							
	Total						**1.55**	**71.03**	110.10
								Grand Total	16780723.59
								DPR Charges (1% of estimated cost)	200000.00
								Project management And Consultancy Charges(1% of estimated cost)	200000.00
								GST Charges (12% of estimated cost)	2013686.83
								KRIDL Charges (4% of estimated cost)	800000.00
								Miscellenious and rounding	5589.62
								Total Amount	20000000.00
									RUPEES TWO CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

RUDRAPRASAD CONSULTANTS * BANGALORE

Administrative Sanction for Rs 200.00 lakhs
Two crore
is accorded under head P-3749
cm-Navanagarathana Ho village
granted (Annexure-07)
Registered as CE No. Subject
to conditions contained
No EE/YNK/691/2019-20 07/11/2019

Technical Sanction
Accorded For Rs 200.00 lakhs
Head of A/C P3749
CER NO : 811 Dt:11

[TA] CE (YNK)